

### **3.6 Effect and impact of tobacco use and smoking on human health, Risk factors attributable to mortality in desert districts of Rajasthan. (A Pilot Study)- J. Lakshminarayana, K. R. Haldiya and Madhu B. Singh**

**Commencement:** December, 2009

**Duration:** 5 years

**Status :** New

#### **Objectives**

1. To find out the impact of smoking and tobacco use in rural areas of western desert districts of Rajasthan
2. To find out the smoking attributable mortality in the rural areas
3. To correlate the associated risk factors for cause of mortality due to excessive tobacco consumption/smoking

#### **Progress of work**

For feasibility purpose Jodhpur district has been selected of which one tehsil has been surveyed and reported here. The selection of villages and study schedule has been prepared and similarly the pilot study has been carried out in jodhpur district. The data analysis has been done in FOX PRO package and reported.

The data analysis revealed that a total of 486 individuals were covered from rural areas of Jodhpur district of Rajasthan. Out of which 90 were males and 10 were females consuming tobacco in any form, and majority of individuals surveyed were in the age group of 40-49 (31.1%) and followed by 26% in the age group 50-59 as duration has been taken 10 years from the date of survey. The percentage is increasing with age among males and in females it is younger age group is consuming due to availability of tobacco in small packets. The results were compared between age and gender showed statistically significant when compared with NFHS-III data among the gender groups ( $P < 0.05$ ) with respect to consumption of tobacco in any form. The majority (77.8%) was living in joint families and the individuals were tobacco users and were almost all were Hindus. The educational status of the tobacco users were mainly illiterates 95.0% and rest of the population can only read and write. Among female population 90.0% were illiterates. This shows education plays major role in tobacco consumption in any form which is the major cause for different health problems like cancers. The Acute Respiratory infections in the surveyed population are around 9.0%. The similar case with females which is 10.0 % Though the sample is small we can say the trend is alarming and showing significant results among consumers and non consumers compared with national survey of NFHS-III study for all India figures. Chi-square test was applied for significant associations among age and gender, type of Family, literacy, Educational status, Type of consumption and morbidities, Proportion test were used for comparing with national figures(NFHS-III survey data) The prevalence estimates of India and Rajasthan were calculated and compared.

**Table 1. Demographic characteristics of the subjects according to gender**

Age group	Males N=304	%	Females N=182	%	Total N=486	%
15-20	5	5.5	3	30.0	8	8.0
20-29	6	6.7	0	0.0	6	6.0
30-39	20	22.2	2	20.0	22	22.0
40-49	28	31.1	1	10.0	29	29.0
50-59	24	26.7	2	20.0	26	26.0
60- 69	5	5.5	2	20.0	9	9.0
>=70	2	2.3	0	0.0	2	
<b>Pooled</b>	90	100.0	10	100.0	100	100.0
<b>Distribution of tobacco users with type of family</b>						
Nuclear	20	22.2	6	60.0	26	26.0
Joint	70	77.8*	4	40.0	74	74.0
Pooled	90	100.0	10	100.0	100	100.0

\* P< 0.05 X<sup>2</sup>=6.675907

The prevalence of tobacco use is (29.6%) in >15 years of age group among males and (5.5%) among females where as in NFHS survey (32.7% in males and 1.4% in females)

**Table 2. Distribution of tobacco users with education of the individual**

Education status	Males	%	Female	%	Total	%
Illiterate	85*	94.4	9	90.0	94	94.0
Read & Write	5	5.6	1	10.0	6	6.0
Pooled	90	100.0	10	100.0	100	100.0

\*P<0.01

**Table 3. Distribution of tobacco users/Chewing according to Gender**

Tobacco Chewing	Males	%	Female	%	Total	%
Yes	80		6	60.0	86	86.0
No	10		4	40.0	14	14.0
Pooled	90	100.0	10	100.0	100	100.0

**Table 4. Distribution of tobacco users with type of morbidity at the time of survey**

<b>Morbidity</b>	<b>Males</b>	<b>%</b>	<b>Females</b>	<b>%</b>	<b>Total</b>	<b>%</b>
N.A.D.	71	78.8	7	70.0	78	78.0
Fever	5	5.6	0	0.0	5	5.0
A. Res. Infec.	8	8.9	2	20.0	10	10.0
Cough & Cold	6	6.7	1	10.0	7	7.0
<b>Pooled</b>	90	100.0	10	100.0	100	100.0

P<0.05